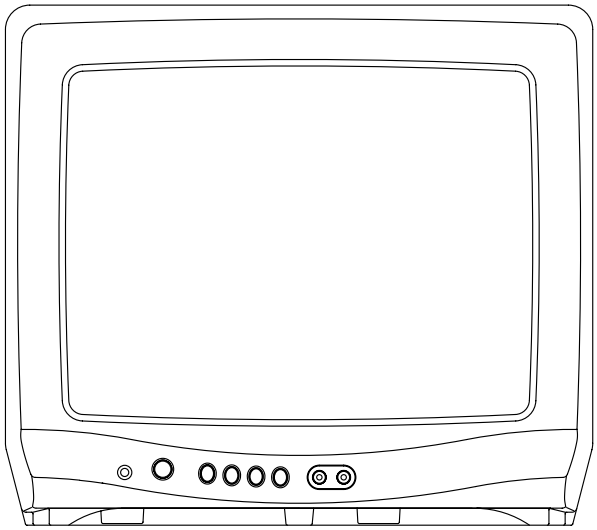
Memorex®

MT1197

SERVICE MANUAL

COLOR TELEVISION RECEIVER



ORIGINAL
MFR'S VERSION B

Design and specifications are subject to change without notice.

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.
Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a ⚠ mark, the designated parts must be used.

4. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board. The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

5. TAKE CARE TO DEAL WITH THE CATHODE-RAY TUBE

In the condition that an explosion-proof cathode-ray tube is set in this equipment, safety is secured against implosion. However, when removing it or serving from backward, it is dangerous to give a shock. Take enough care to deal with it.

6. AVOID AN X-RAY

Safety is secured against an X-ray by considering about the cathode-ray tube and the high voltage peripheral circuit, etc.
Therefore, when repairing the high voltage peripheral circuit, use the designated parts and make sure not modify the circuit.
Repairing except indicates causes rising of high voltage, and it emits an X-ray from the cathode-ray tube.

7. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

(INSULATION CHECK PROCEDURE)

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the eternal exposure metal **[Note 2]** should be more than 1M ohm by using the 500V insulation resistance meter **[Note 1]**.
4. If the insulation resistance is less than 1M ohm, the inspection repair should be required.

[Note 1]

If you have not the 500V insulation resistance meter, use a Tester.

[Note 2]

External exposure metal: Antenna terminal
Earphone jack

HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the VERSION LETTER.)

1. MODEL NUMBER and VERSION LETTER
   The MODEL NUMBER can be found on the back of each product and the VERSION LETTER can be found at the end of the SERIAL NUMBER.
2. PART NO. and DESCRIPTION
   You can find it in your SERVICE MANUAL.

IMPORTANT

Inferior silicon grease can damage IC's and transistors.
When replacing an IC's or transistors, use only specified silicon grease (YG6260M).
Remove all old silicon before applying new silicon.

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GENERAL SPECIFICATIONS

G-1	TV System	CRT	CRT Size / Visual Size		19 inch / 480.0mmV
			CRT Type		Normal
			Deflection		90 degree
			Magnetic Field BV/BH		+0.45G/0.18G
		Color System			NTSC
		Speaker			1Speaker
			Position		Bottom
			Size		3 Inch
			Impedance		8 ohm
		Sound Output	MAX		1.5 W
			10%(Typical)		1.0 W
		NTSC3.58+4.43 /PAL60Hz			No
G-2	Tuning System	Broadcasting System			US System M
		Tuner and Receive CH	System		1Tuner
			Destination		Others
			Tuning System		F-Synth
			Input Impedance		VHF/UHF 75 ohm
			CH Coverage		2 - 69, 4A, A-5 - A-1, A - I, J - W, W+1 - W+84
		Intermediate Frequency	Picture(FP)		45.75MHz
			Sound(FS)		41.25MHz
			FP-FS		4.50MHz
		Preset CH			No
		Stereo/Dual TV Sound			No
		Tuner Sound Muting			Yes
G-3	Power	Power Source	AC		120V AC 60Hz
			DC		
		Power Consumption	at AC		
					73 W at AC 120 V 60 Hz
			Stand by (at AC)		5 W at AC 120 V 60 Hz
			Per Year		-- kWh/Year
		Protector	Power Fuse		Yes
G-4	Regulation		Safety		UL
			Radiation		FCC
			X-Radiation		DHHS
G-5	Temperature		Operation		+5°C ~ +40°C
			Storage		-20°C ~ +60°C
G-6	Operating Humidity				Less then 80% RH
G-7	On Screen Display	Menu			Yes
			Menu Type		Character
			Picture		Yes
				Contrast	Yes
				Brightness	Yes
				Color	Yes
				Tint	Yes
				Sharpness	Yes
			Audio		No
				Bass	No
				Treble	No
				Balance	No
				BBE On/Off	No
				Stable Sound On/Off	No
			CH Set Up		Yes
				TV/CATV	Yes
				Auto CH Memory	Yes
				Add/ Delete	Yes
			Language		Yes
			V-chip		Yes
				CH Label	No
				Favorite CH	No
				Color Stream DVD/DTV	No
			Control Level		Yes
				Volume	Yes
				Brightness	Yes
				Contrast	Yes
				Color	Yes
				Tint (NTSC Only)	Yes
				Sharpness	Yes
				Tuning	No
				Bass	No
				Treble	No
				Balance	No
				Back Light	No
			Stereo,Audio Output,SAP		No
			Video		Yes
			Color Stream		No
			Channel(TV/Cable)		Yes

GENERAL SPECIFICATIONS

			CH Label		No
			Sleep Timer	Yes	
			Sound Mute	Yes	
			V-chip Rating	Yes	
G-8	OSD Language			English French Spanish	
			OSD Language Setting	English	
G-9	Clock and Timer	Sleep Timer	Max Time	120 Min	
			Step	10 Min	
		On/Off Timer	Program(On Tim / Off Tim)		No
		Wake Up Timer			No
		Timer Back-up (at Power Off Mode)	more than	-- Min	Sec
G-10	Remote Control	Unit		RC-DW	
		Glow in Dark Remocon			No
		Format		NEC	
		Custom Code		86-05 h	
		Power Source	Voltage(D.C)	3V	
			UM size x pcs	UM-4 x 2 pcs	
		Total Keys		27 Keys	
		Keys	Power	Yes	
			1	Yes	
			2	Yes	
			3	Yes	
			4	Yes	
			5	Yes	
			6	Yes	
			7	Yes	
			8	Yes	
			9	Yes	
			0	Yes	
			100		No
			CH Up	Yes	
			CH Down	Yes	
			Volume Up	Yes	
			Volume Down	Yes	
			TV/Caption/Text	Yes	
			CH1/CH2	Yes	
			TV/Video(TV/AV)	Yes	
			CH RTN/CH ENT(Quick View)	Yes	
			Sleep	Yes	
			RE Call(Call)	Yes	
			Reset	Yes	
			Menu	Yes	
			Enter	Yes	
			Mute	Yes	
			Exit		No
			MTS(Audio Select)		No
			Set +	Yes	
			Set -	Yes	
		Multi Brand Keys	CH Up(VCR)		No
			CH Down(VCR)		No
			Pause/Still		No
			TV/VCR(VCR)		No
			Code		No
			FF		No
			Rew		No
			Rec		No
			Play		No
			Stop		No
			TV		No
			VCR		No
			Cable		No
G-11	Features	Auto Degauss		Yes	
		Auto Shut Off		Yes	
		Canal+			No
		CATV		Yes	
		Anti-theft			No
		Rental			No
		Memory(Last CH)		Yes	
		Memory(Last Volume)		Yes	
		V-Chip		Yes	
			Type	USA,ORION Type	
		BBE			No
		Auto Search			No
		CH Allocation			No
		SAP			No
		Channel Lock			No
		Just Clock Function			No

GENERAL SPECIFICATIONS

		Game Position				No
		CH Label				No
		VM Circuit				No
		Full OSD				No
		Premiere				No
		Comb Filter				No
					Lines	
		Auto CH Memory			Yes	
		Hotel Lock				No
		Closed Caption			Yes	
		Stable Sound				No
		Energy Star				No
		Favorite CH				No
G-12	Accessories	Owner's Manual		Language	English / Spanish	
				w/Guarantee Card		No
		Remote Control Unit			Yes	
		Rod Antenna				No
				Poles		
				Terminal		
		Loop Antenna				No
				Terminal		
		U/V Mixer				No
		DC Car Cord (Center+)				No
		Guarantee Card			Yes	
		Warning Sheet				No
		Circuit Diagram				No
		Antenna Change Plug				No
		Service Facility List				No
		Important Safeguard				No
		Dew/AHC Caution Sheet				No
		AC Plug Adapter				No
		Quick Set-up Sheet				No
		Battery				No
				UM size x pcs		
				OEM Brand		No
		AC Cord				No
		AV Cord (2Pin-1Pin)				No
		Registration Card				No
		PTB Sheet				No
		300 ohm to 75 ohm Antenna Adapter				No
G-13	Interface	Switch	Front	Power	Yes	
				System Select		No
				Main Power SW		No
				Sub Power		No
				Channel Up/Reset	Yes	
				Channel Down/Enter	Yes	
				Volume Up/Set Up	Yes	
				Volume Down/Set Down	Yes	
				MENU=Volume Up+Volume Down	Yes	
			Rear	AC/DC		No
				TV/CATV Selector		No
				Degauss		No
				Main Power SW		No
		Indicator		Power		No
				Stand-by		No
				On Timer		No
		Terminals	Front	Video Input	RCA	
				Audio Input	RCA x 1	
				Other Terminal		No
			Rear	Video Input(Rear1)		No
				Video Input(Rear2)		No
				Audio Input(Rear1)		No
				Audio Input(Rear2)		No
				Video Output		No
				Audio Output		No
				Euro Scart		No
				Color Stream		No
				Diversity		No
				Ext Speaker		No
				DC Jack 12V(Center +)		No
				VHF/UHF Antenna Input	F Type	
				AC Outlet		No
G-14	Set Size			Approx. W x D x H (mm)	488 x 465 x 416	
G-15	Weight			Net (Approx.)	17.5kg	(38.6 lbs)
				Gross (Approx.)	20.0kg	(44.1lbs)
G-16	Carton		Master Carton			No
				Content	----	Sets

GENERAL SPECIFICATIONS

			Material	-- /--
			Dimensions W x D x H(mm)	-- x -- x --
			Description of Origin	No
		Gift Box		Yes
			Material	Double Full Color Carton w/Photo
			Dimensions W x D x H(mm)	546 x 526 x 472
			Design	As per Buyer's
			Description of Origin	Yes
		Drop Test		Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces
			Height (cm)	46
		Container Stuffing		436 Sets/40' container
G-17	**Cabinet Material**		Cabinet Front	PS 94V0 DECABROM
			Cabinet Rear	PS 94V0 DECABF

DISASSEMBLY INSTRUCTIONS

1. REMOVAL OF ANODE CAP

Read the following **NOTED** items before starting work.

* After turning the power off there might still be a potential voltage that is very dangerous. When removing the Anode Cap, make sure to discharge the Anode Cap's potential voltage.
* Do not use pliers to loosen or tighten the Anode Cap terminal, this may cause the spring to be damaged.

REMOVAL

1. Follow the steps as follows to discharge the Anode Cap. **(Refer to Fig. 1-1.)**
   Connect one end of an Alligator Clip to the metal part of a flat-blade screwdriver and the other end to ground. While holding the plastic part of the insulated screwdriver, touch the support of the Anode with the tip of the screwdriver.
   A cracking noise will be heard as the voltage is discharged.

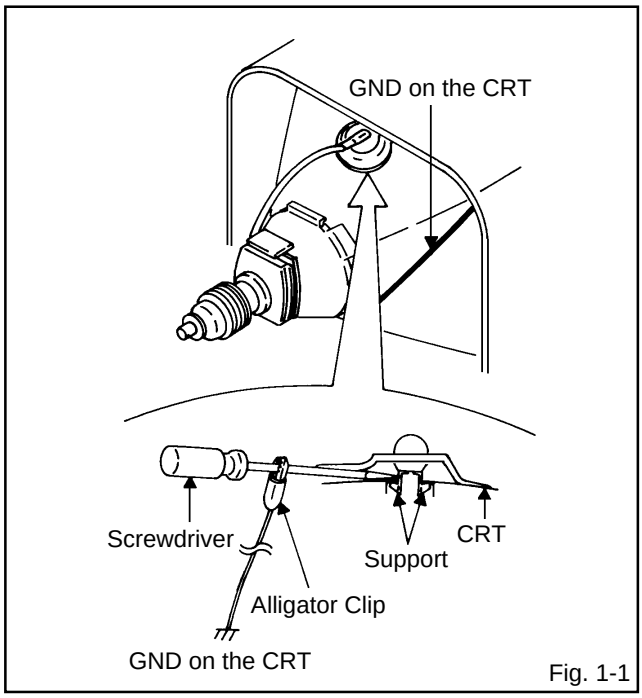


Fig. 1-1

2. Flip up the sides of the Rubber Cap in the direction of the arrow and remove one side of the support. **(Refer to Fig. 1-2.)**

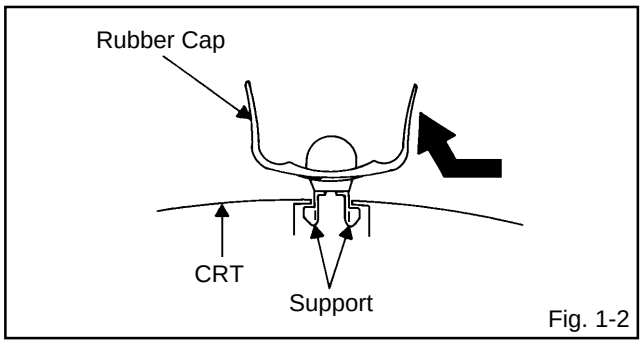


Fig. 1-2

3. After one side is removed, pull in the opposite direction to remove the other.

NOTE

Take care not to damage the Rubber Cap.

INSTALLATION

1. Clean the spot where the cap was located with a small amount of alcohol. **(Refer to Fig. 1-3.)**

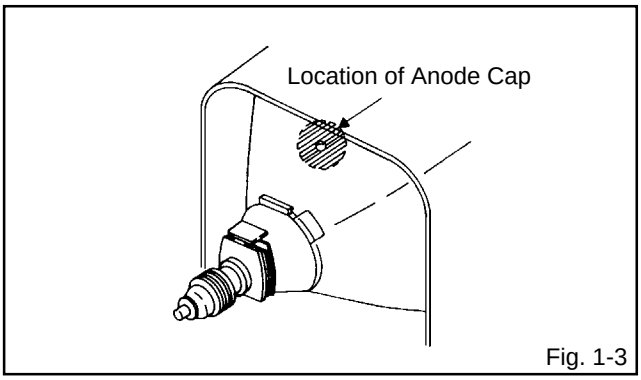


Fig. 1-3

NOTE

Confirm that there is no dirt, dust, etc. at the spot where the cap was located.

2. Arrange the wire of the Anode Cap and make sure the wire is not twisted.
3. Turn over the Rubber Cap. **(Refer to Fig. 1-4.)**

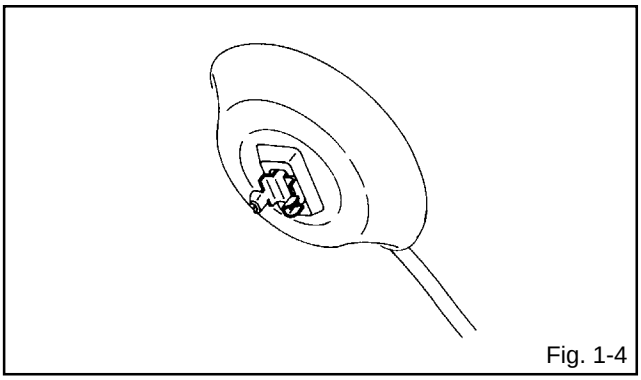


Fig. 1-4

4. Insert one end of the Anode Support into the anode button, then the other as shown in **Fig. 1-5.**

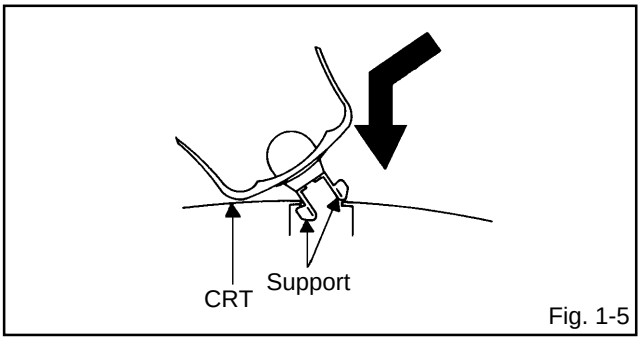


Fig. 1-5

5. Confirm that the Support is securely connected.
6. Put on the Rubber Cap without moving any parts.

DISASSEMBLY INSTRUCTIONS

2. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

1. Put the Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. **(Refer to Fig. 2-1.)**

   NOTE

   Masking is carried out on all the parts located within 10 mm distance from IC leads.

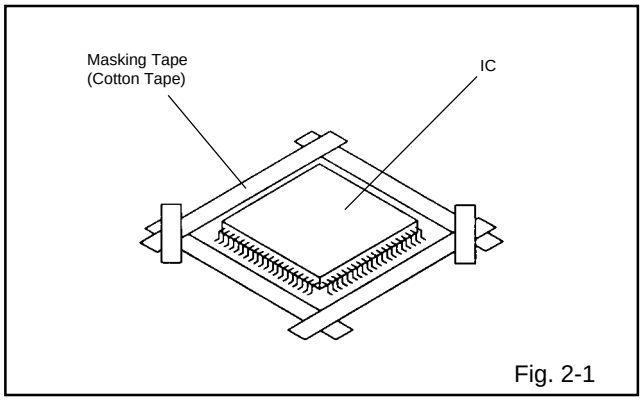


Fig. 2-1

2. Heat the IC leads using a blower type IC desoldering machine. **(Refer to Fig. 2-2.)**

   NOTE

   Do not add the rotating and the back and forth directions force on the IC, until IC can move back and forth easily after desoldering the IC leads completely.

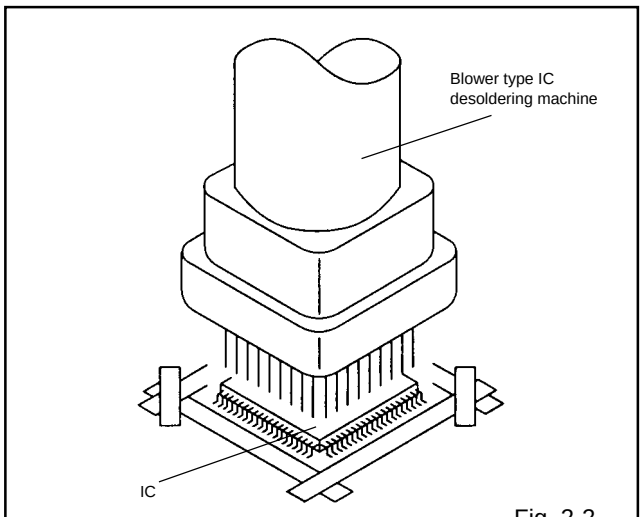


Fig. 2-2

3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using a tweezers and remove the IC by moving with the IC desoldering machine. **(Refer to Fig. 2-3.)**

   NOTE

   Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.

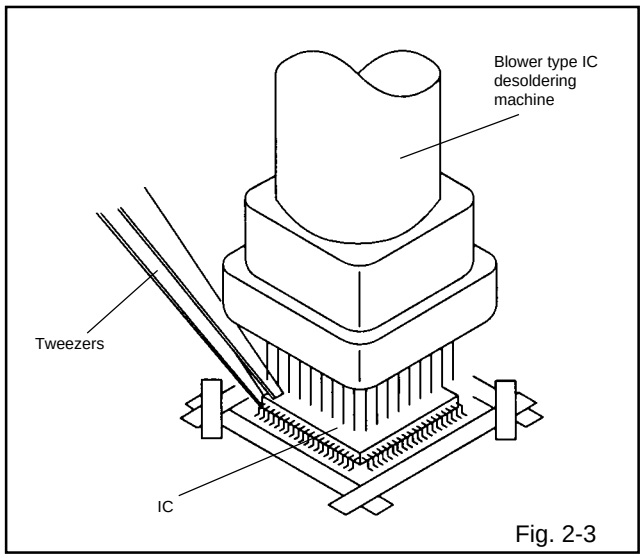


Fig. 2-3

4. Peel off the Masking Tape.

5. Absorb the solder left on the pattern using the Braided Shield Wire. **(Refer to Fig. 2-4.)**

   NOTE

   Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.

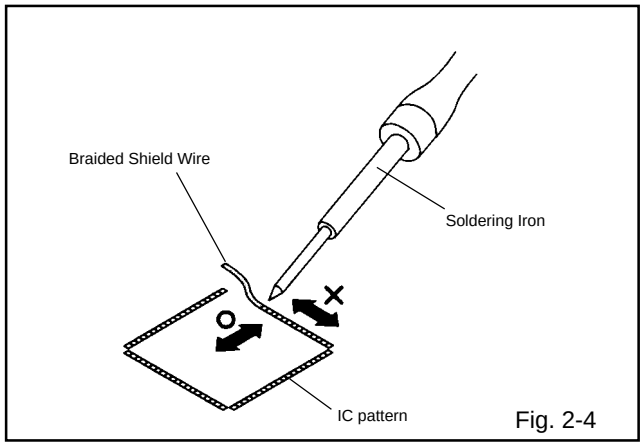


Fig. 2-4

DISASSEMBLY INSTRUCTIONS

INSTALLATION

1. Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. **(Refer to Fig. 2-5.)**

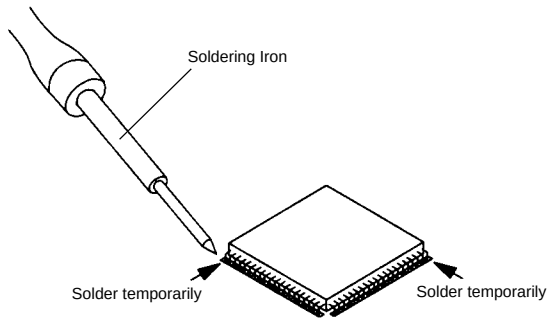


Fig. 2-5

2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. **(Refer to Fig. 2-6.)**

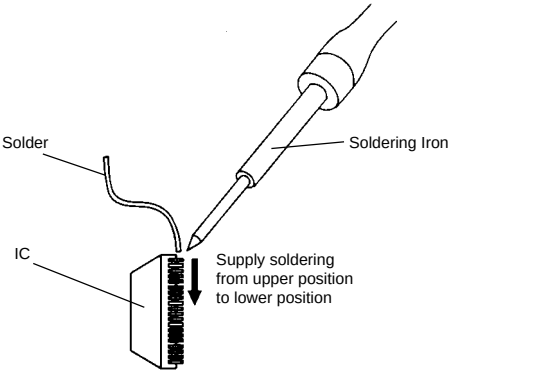


Fig. 2-6

3. Absorb the solder left on the lead using the Braided Shield Wire. **(Refer to Fig. 2-7.)**

   NOTE

   Do not absorb the solder to excess.

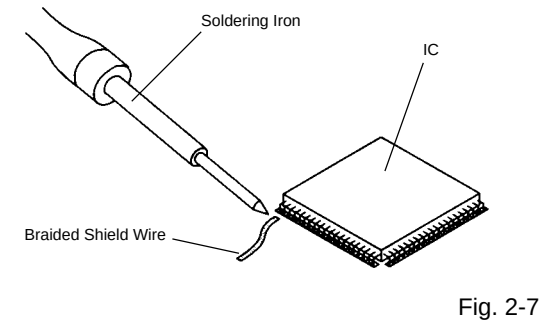


Fig. 2-7

4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. **(Refer to Fig. 2-8.)**

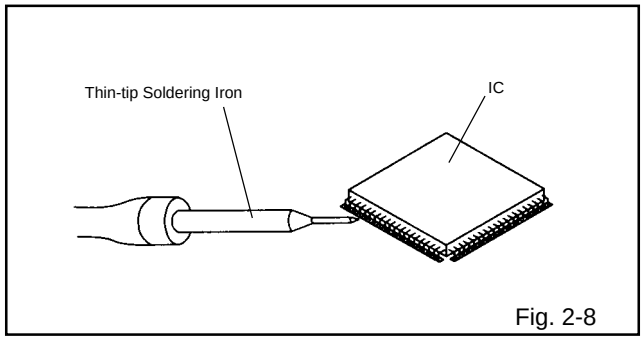


Fig. 2-8

5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass.
   Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

   NOTE

   When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, be always sure to replace the IC in this case.

SERVICE MODE LIST

This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily.
To enter the Service Mode, press both set key and remote control key for more than 1 second.

Set Key	Remocon Key	Operations
VOL. (-) MIN	0	Releasing of V-CHIP PASSWORD.
VOL. (-) MIN	1	Initialization of the factory. NOTE: Do not use this for the normal servicing. If you set a factory initialization, the memories are reset such as the clock setting, the channel setting, the POWER ON total hours, and PLAY/REC total hours.
VOL. (-) MIN	6	POWER ON total hours is displayed on the screen. Refer to the "CONFIRMATION OF HOURS USED". Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
VOL. (-) MIN	8	Writing of EEPROM initial data. NOTE: Do not use this for the normal servicing.
VOL. (-) MIN	9	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).

CONFIRMATION OF HOURS USED

POWER ON total hours can be checked on the screen. Total hours are displayed in 16 system of notation.

1. Set the VOLUME to minimum.
2. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 1 second.
3. After the confirmation of using hours, turn off the power.

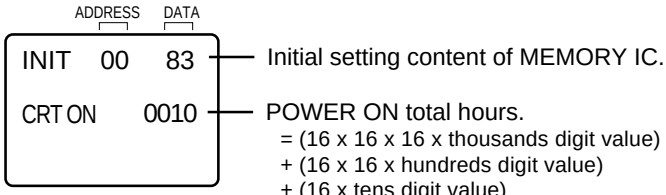

ADDRESS
DATA
INIT 00 83
CRT ON 0010
Initial setting content of MEMORY IC.
POWER ON total hours.
= (16 x 16 x 16 x thousands digit value)
+ (16 x 16 x hundreds digit value)
+ (16 x tens digit value)
+ (ones digit value)

FIG. 1

WHEN REPLACING EEPROM (MEMORY) IC

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to TABLE 1.

INI	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
00	08	20	99	02	09	B3	24	19	01	00	44	05	00	D5	FF	A5

Table 1

1. Enter DATA SET mode by setting VOLUME to minimum.
2. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 1 second. ADDRESS and DATA should appear as FIG 1.
3. ADDRESS is now selected and should "blink". Using the SET + or - keys on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
4. Press ENTER to select DATA. When DATA is selected, it will "blink".
5. Again, step through the DATA using SET + or - until required DATA value has been selected.
6. Pressing ENTER will take you back to ADDRESS for further selection if necessary.
7. Repeat steps 3 to 6 until all data has been checked.
8. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

The unit will now have the correct DATA for the new MEMORY IC.

ELECTRICAL ADJUSTMENTS

1. BEFORE MAKING ELECTRICAL ADJUSTMENTS

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

CAUTION

- Use an isolation transformer when performing any service on this chassis.
- Before removing the anode cap, discharge electricity because it contains high voltage.
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
  Inferior silicon grease can damage IC's and transistors. When
- When you exchange IC and Transistor for a heat sink, apply the silicon grease **(YG6260M)** on the contract section of the heat sink, Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damages to the IC and Transistor.)

Prepare the following measurement tools for electrical adjustments.

1. Synchro Scope
2. Digital Voltmeter

On-Screen Display Adjustment

1. In the condition of NO indication on the screen. Press the VOL. DOWN button on the set and the Channel button **(9)** on the remote control for more than 1 second to appear the adjustment mode on the screen as shown in **Fig. 1-1**.

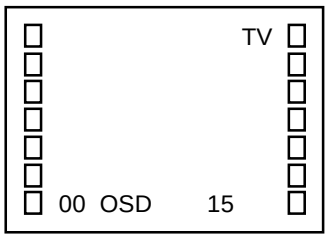


Fig. 1-1

2. Use the Channel UP/DOWN button or Channel button **(0-9)** on the remote control to select the options shown in **Fig. 1-2**.
3. Press the MENU button on the remote control to end the adjustments.

NO.	FUNCTION	NO.	FUNCTION
00	OSD H	16	CONTRAST CENT
01	CUT OFF	17	CONTRAST MAX
02	RF DELAY	18	CONTRAST MIN
03	VIF VCO	19	COLOR CENT
04	H.VCO	20	COLOR MAX
05	H.PHASE	21	COLOR MIN
06	V.SIZE	22	TINT
07	V.SHIFT	23	SHARPNESS
08	R.DRIVE	24	FM LEVEL
09	B.DRIVE	25	LEVEL
10	R.BIAS	26	SEPARATION 1
11	G.BIAS	27	SEPARATION 2
12	B.BIAS	28	TEST MONO
13	BRIGHT CENT	29	TEST STEREO
14	BRIGHT MEX	30	X-RAY TEST
15	BRIGHT MIN		

Fig. 1-2

2. BASIC ADJUSTMENTS

2-1: RF AGC DELAY

1. Place the set with Aging Test for more than 15 minutes.
2. Receive an 63dB monoscope pattern.
3. Connect the digital voltmeter to **W043** .
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(02)** on the remote control to select "RF.AGC".
5. Press the VOL. UP/DOWN button on the remote control until the digital voltmeter is 2.50 ± 0.05V.

2-2: CUT OFF

1. Adjust the unit to the following settings.
   R.DRIVE=10, B.DRIVE=10, R.BIAS=64, G.BIAS=64, B.BIAS=64, BRIGHTNESS=125, CONTRAST=60.
2. Place the set with Aging Test for more than 15 minutes.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(01)** on the remote control to select "CUT OFF".
4. Adjust the **Screen Volume** until a dim raster is obtained.

2-3: FOCUS

1. Receive the monoscope pattern.
2. Turn the Focus Volume fully counterclockwise once.
3. Adjust the **Focus Volume** until picture is distinct.

2-4: WHITE BALANCE

NOTE: Adjust after performing CUT OFF adjustment.

1. Place the set with Aging Test for more than 10 minutes.
2. Receive the white 100% signal from the Pattern Generator.
3. Using the adjustment control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(10)** on the remote control to select "R.BIAS".
5. Using the VOL. UP/DOWN button on the remote control, adjust the R.BIAS.
6. Press the CH. UP/DOWN button on the remote control to select the "R.DRIVE", "B.DRIVE", "G.BIAS" or "B.BIAS".
7. Using the VOL. UP/DOWN button on the remote control, adjust the R.DRIVE, B.DRIVE, G.BIAS or B.BIAS.
8. Perform the above adjustments 6 and 7 until the white color is looked like a white.

2-5: SUB TINT/SUB COLOR

1. Receive the color bar pattern.
2. Connect the oscilloscope to **TP023** .
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(22)** on the remote control to select "TINT".
4. Press the VOL. UP/DOWN button on the remote control until the section "A" becomes as straight line **(Refer to Fig. 2-1)**
5. Connect the oscilloscope to **TP022** .
6. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(19)** on the remote control to select "COL.CENT".
7. Press the VOL. UP/DOWN button on the remote control until the red color level is adjusted to 120% of the white level. **(Refer to Fig. 2-2)**

ELECTRICAL ADJUSTMENTS

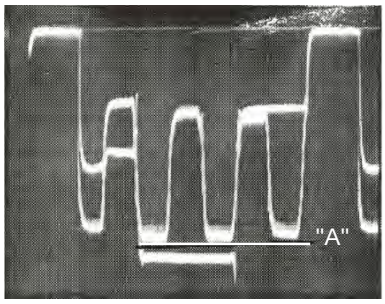


Fig. 2-1

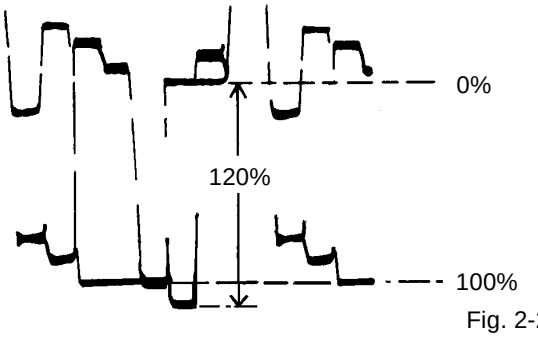


Fig. 2-2

2-6: HORIZONTAL PHASE

1. Receive the center cross signal from the Pattern Generator.
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(05)** on the remote control to select "H.PHAS".
3. Press the VOL. UP/DOWN button on the remote control until the SHIFT quantity of the OVER SCAN on right and left becomes minimum.

2-7: VERTICAL SIZE

1. Receive the crosshatch signal from the Pattern Generator.
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(06)** on the remote control to select "V.SIZE".
3. Press the VOL. UP/DOWN button on the remote control until the rectangle on the center of the screen becomes square.
4. Receive a broadcast and check if the picture is normal.

2-8: VERTICAL SHIFT

1. Receive the crosshatch signal from the Pattern Generator.
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(07)** on the remote control to select "V.SFT".
3. Press the VOL. UP/DOWN button on the remote control until the horizontal line becomes fit to the notch of the shadow mask.

2-9: OSD HORIZONTAL

1. Activate the adjustment mode display of **Fig. 1-1**.
2. Press the VOL. UP/DOWN button on the remote control until the difference of A and B becomes minimum. **(Refer to Fig. 2-3)**

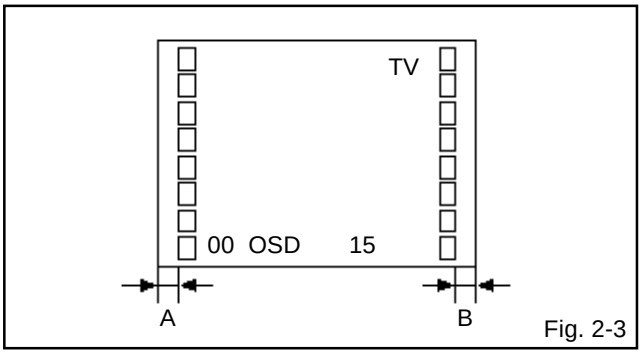


Fig. 2-3

2-10: VIF VCO

1. Place the set with Aging Test for more than 10 minutes.
2. Receive an 80dB monoscope pattern.
3. Connect the digital voltmeter between the **pin 5 of CP601** and the **GND** .
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(03)** on the remote control to select "V.VCO".
5. Press the VOL. UP/DOWN button on the remote control until the digital voltmeter is 2.5V.

2-11: SUB BRIGHTNESS

1. Receive an 70dB monoscope pattern.
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(13)** on the remote control to select "BRI.CENT".
3. Press the VOL. UP/DOWN button on the remote control until the screen begin to shine.
4. Press the TV/AV button on the remote to set to the AV mode. Then perform the above adjustment 2, 3.

2-12: SUB CONTRAST MANUAL

1. Receive an 70dB the color bar pattern.
2. Activate the adjustment mode display of **Fig. 1-1** press the channel button **(17)** on the remote control to select "CONT.MAX".
3. Press the VOL. UP/DOWN button on the remote control until the contrast step No. become "66".
4. Press the TV/AV button on the remote to set to the AV mode. Then perform the above adjustment 2.
5. Press the VOL. UP/DOWN button on the remote control until the contrast step No. become "66".

ELECTRICAL ADJUSTMENTS

2-13: Confirmation of Fixed Value (step No.)

Please check if the fixed values of the each adjustment items are set correctly referring below.

NO.	FUNCTION	RF	AV
04	H VCO	04	04
14	BRIGHT MAX	183	183
15	BRIGHT MIN	60	60
16	CONT CENT	30	30
18	CONT MIN	12	12
20	COLOR MAX	70	70
21	COLOR MIN	01	01
23	SHARPNESS	40	40
24	FM LEVEL	00	00
25	LEVEL	00	00
26	SEPARATION 1	00	00
27	SEPARATION 2	00	00
28	TEST MONO	00	00
29	TEST STERO	00	00

ELECTRICAL ADJUSTMENTS

3. PURITY AND CONVERGENCE ADJUSTMENTS

NOTE

1. Turn the unit on and let it warm up for at least 30 minutes before performing the following adjustments.
2. Place the CRT surface facing east or west to reduce the terrestrial magnetism.
3. Turn ON the unit and demagnetize with a Degauss Coil.

3-1: STATIC CONVERGENCE (ROUGH ADJUSTMENT)

1. Tighten the screw for the magnet. Refer to the adjusted CRT for the position. **(Refer to Fig. 3-1)**
   If the deflection yoke and magnet are in one body, untighten the screw for the body.
2. Receive the green raster pattern from the color bar generator.
3. Slide the deflection yoke until it touches the funnel side of the CRT.
4. Adjust center of screen to green, with red and blue on the sides, using the pair of purity magnets.
5. Switch the color bar generator from the green raster pattern to the crosshatch pattern.
6. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
7. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.
8. Adjust the crosshatch pattern to change to white by repeating steps 6 and 7.

3-2: PURITY

NOTE

Adjust after performing adjustments in section 3-1.

1. Receive the green raster pattern from color bar generator.
2. Adjust the pair of purity magnets to center the color on the screen.
   Adjust the pair of purity magnets so the color at the ends are equally wide.
3. Move the deflection yoke backward (to neck side) slowly, and stop it at the position when the whole screen is green.
4. Confirm red and blue colors.
5. Adjust the slant of the deflection yoke while watching the screen, then tighten the fixing screw.

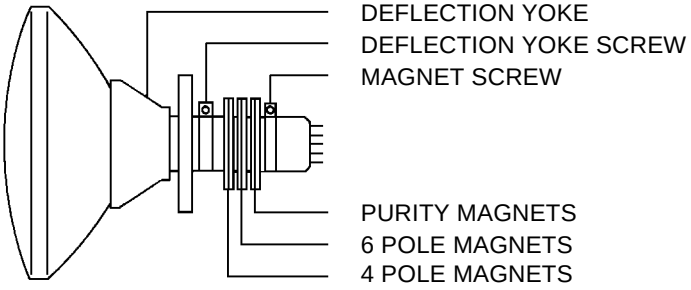


Fig.3-1

3-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-2.

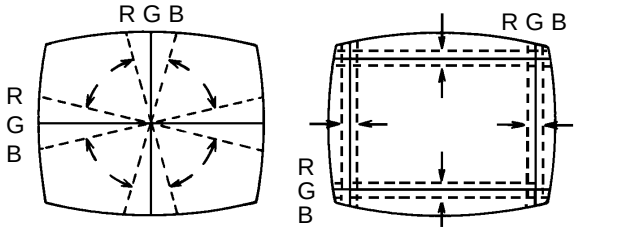
1. Receive the crosshatch pattern from the color bar generator.
2. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
3. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

3-4: DYNAMIC CONVERGENCE

NOTE

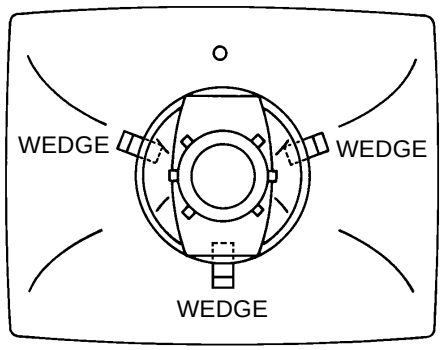
Adjust after performing adjustments in section 3-3.

1. Adjust the differences around the screen by moving the deflection yoke upward/downward and right/left. **(Refer to Fig. 3-2-a)**
2. Insert three wedges between the deflection yoke and
   CRT funnel to fix the deflection yoke. **(Refer to Fig. 3-2-b)**



UPWARD/DOWNWARD SLANT RIGHT/LEFT SLANT

Fig.3-2-a

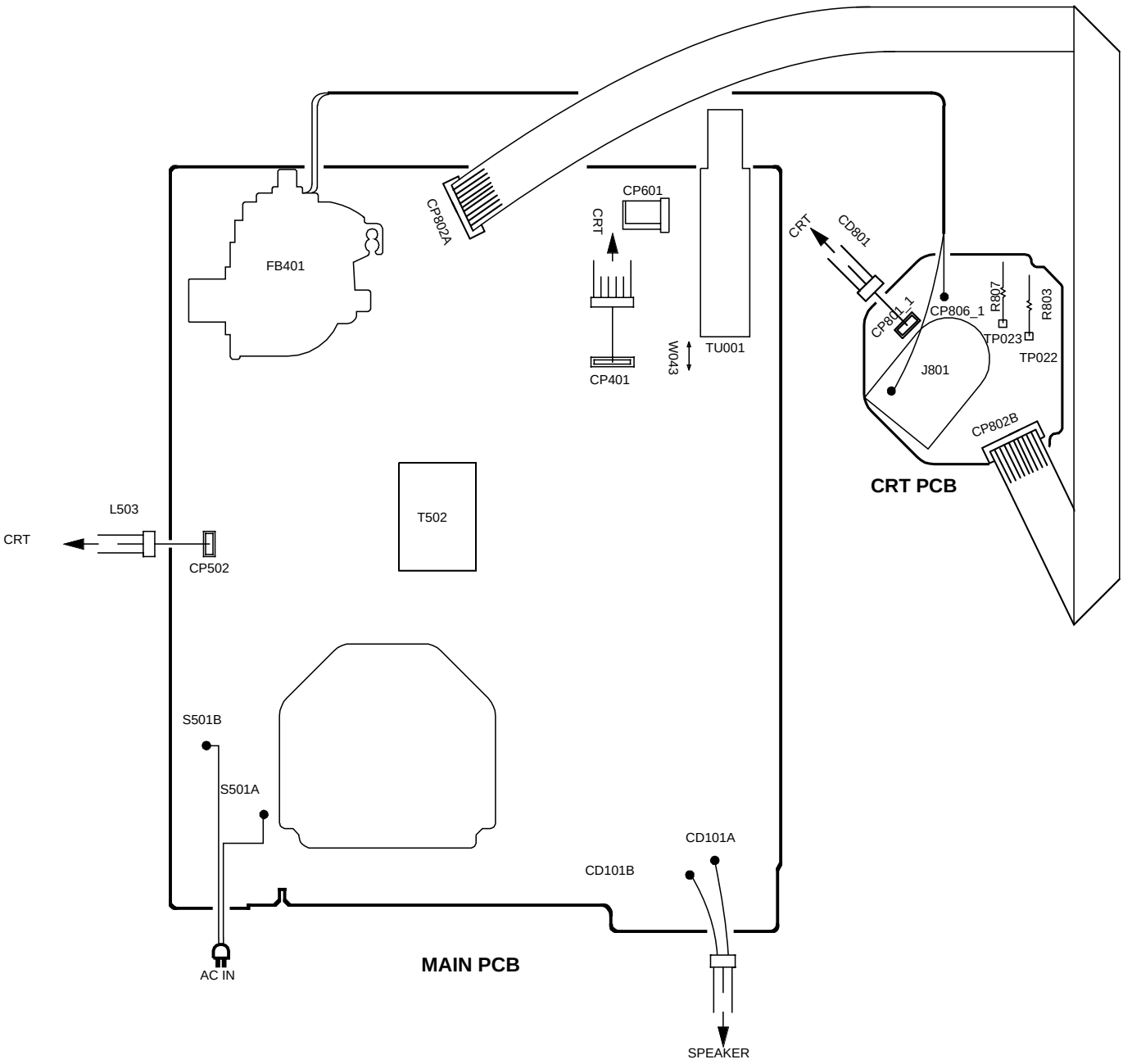


WEDGE POSITION

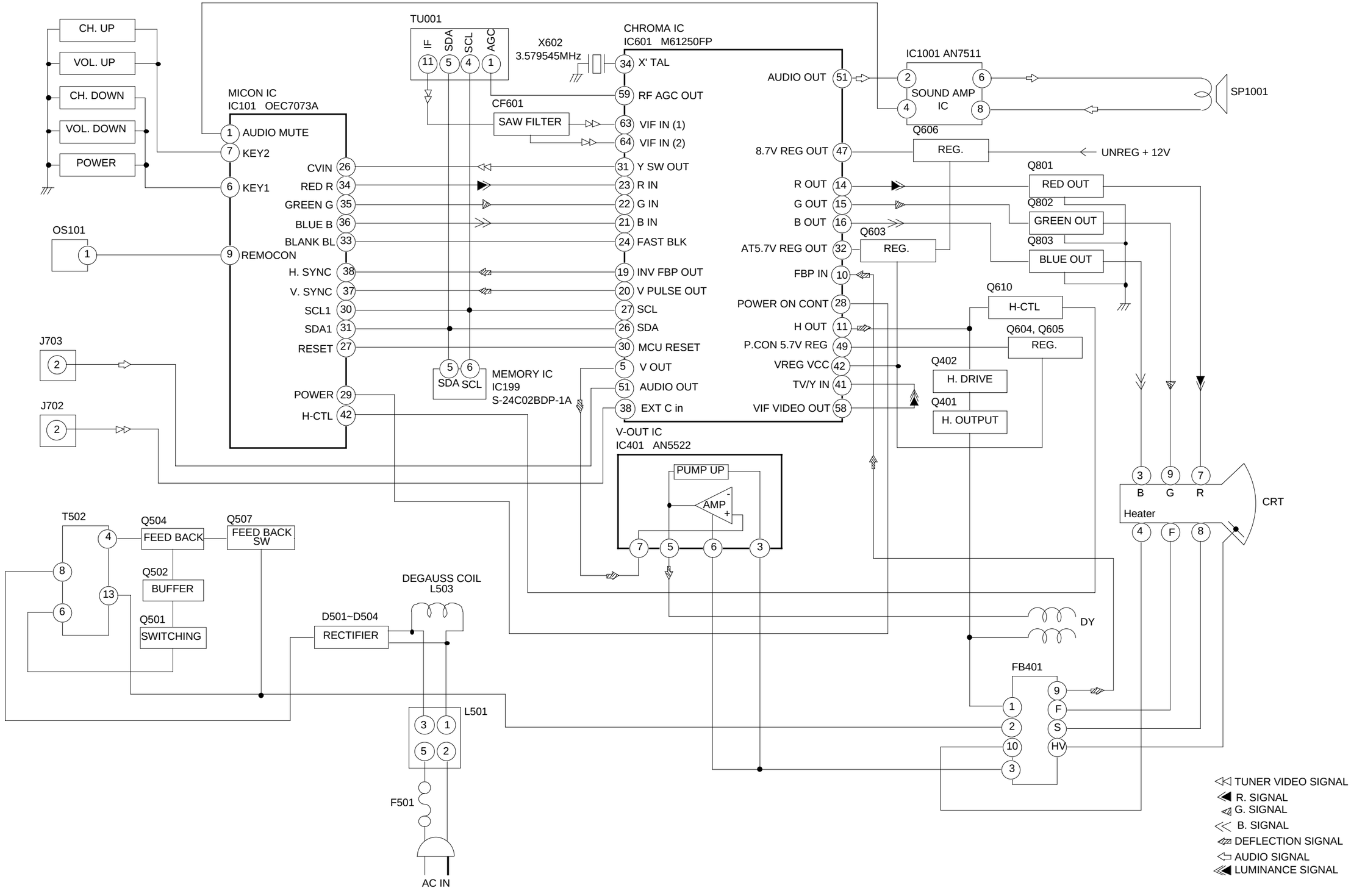
Fig.3-2-b

ELECTRICAL ADJUSTMENTS

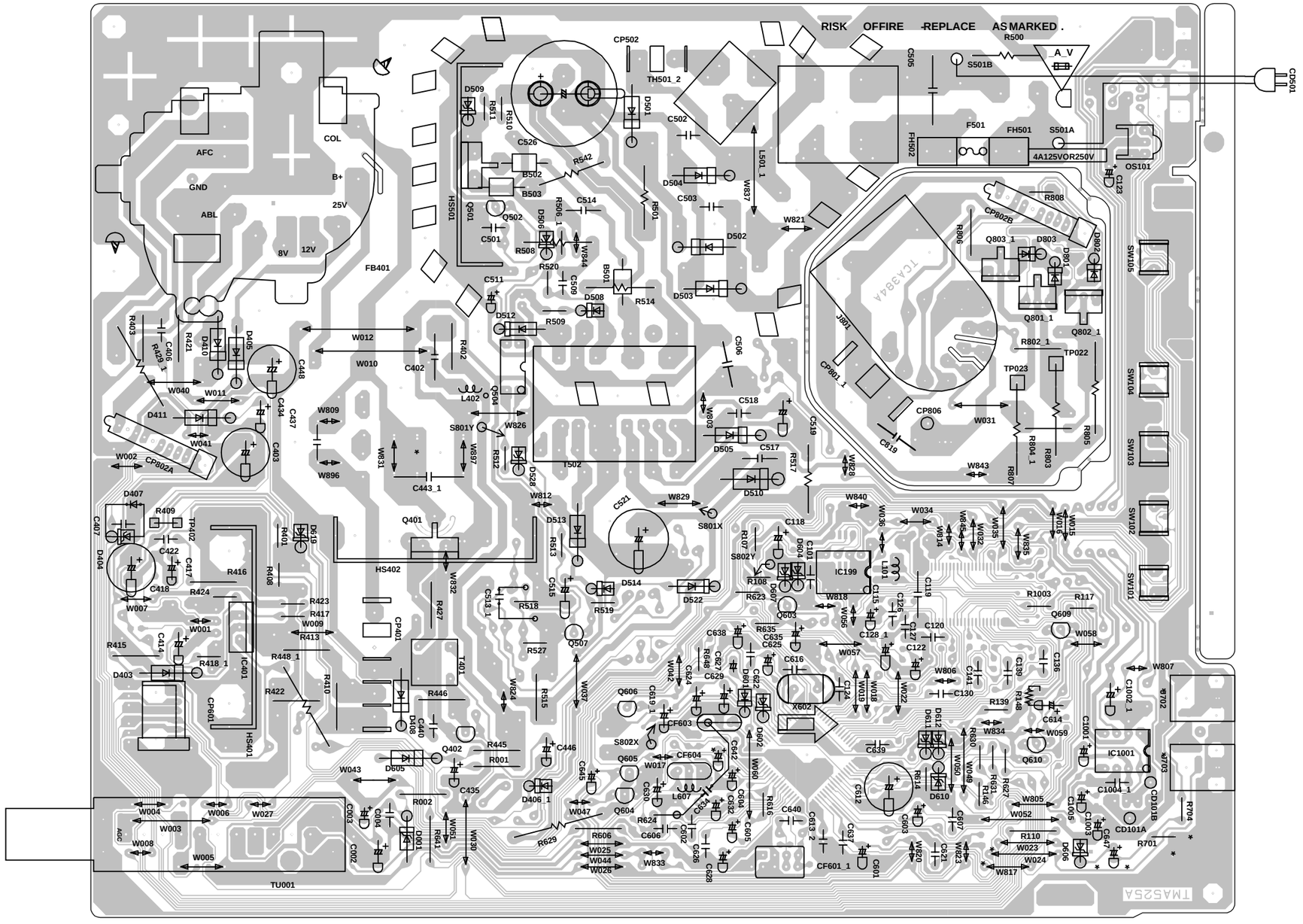
4. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)



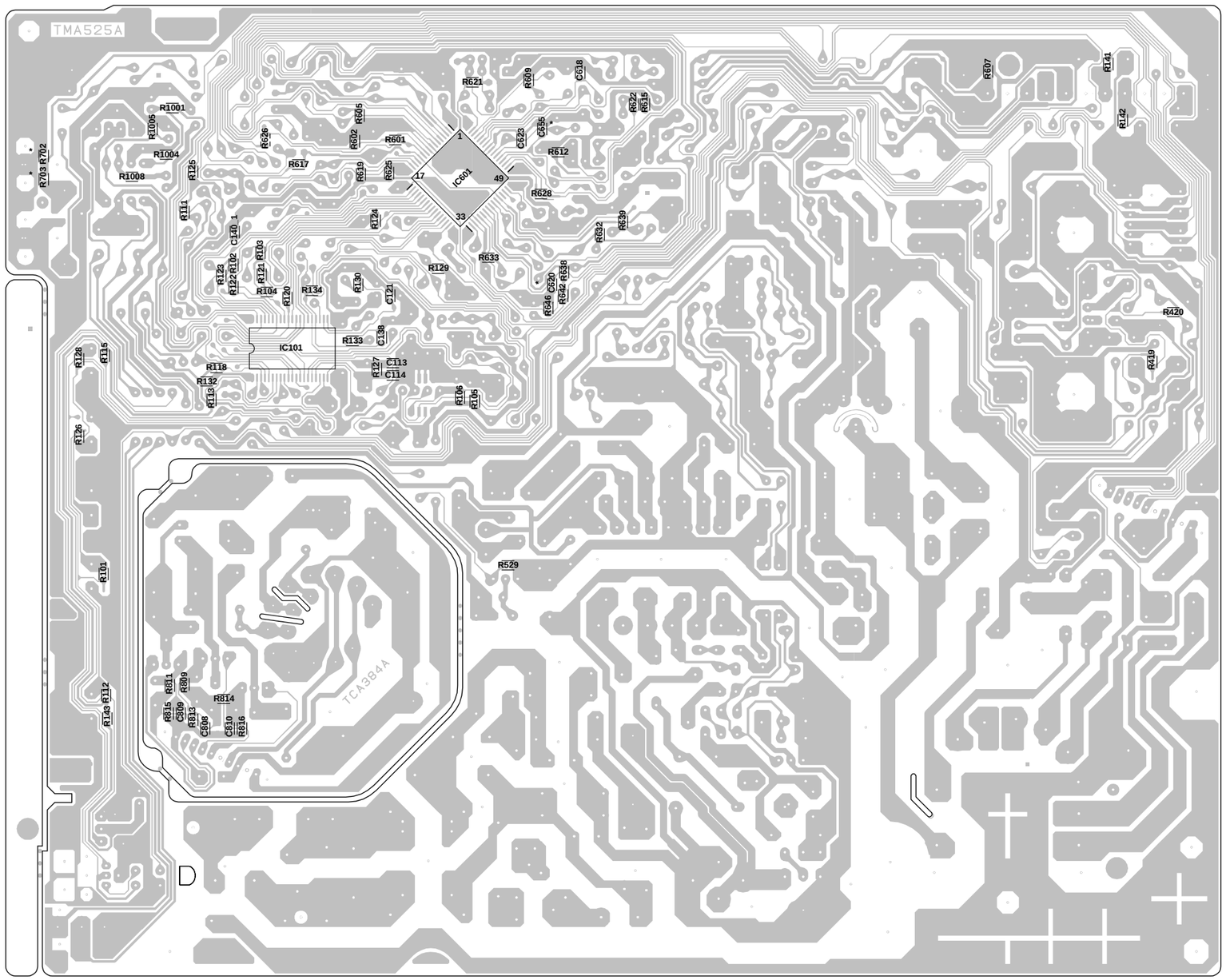
BLOCK DIAGRAM



PRINTED CIRCUIT BOARDS
MAIN/CRT (INSERTED PARTS)
SOLDER SIDE

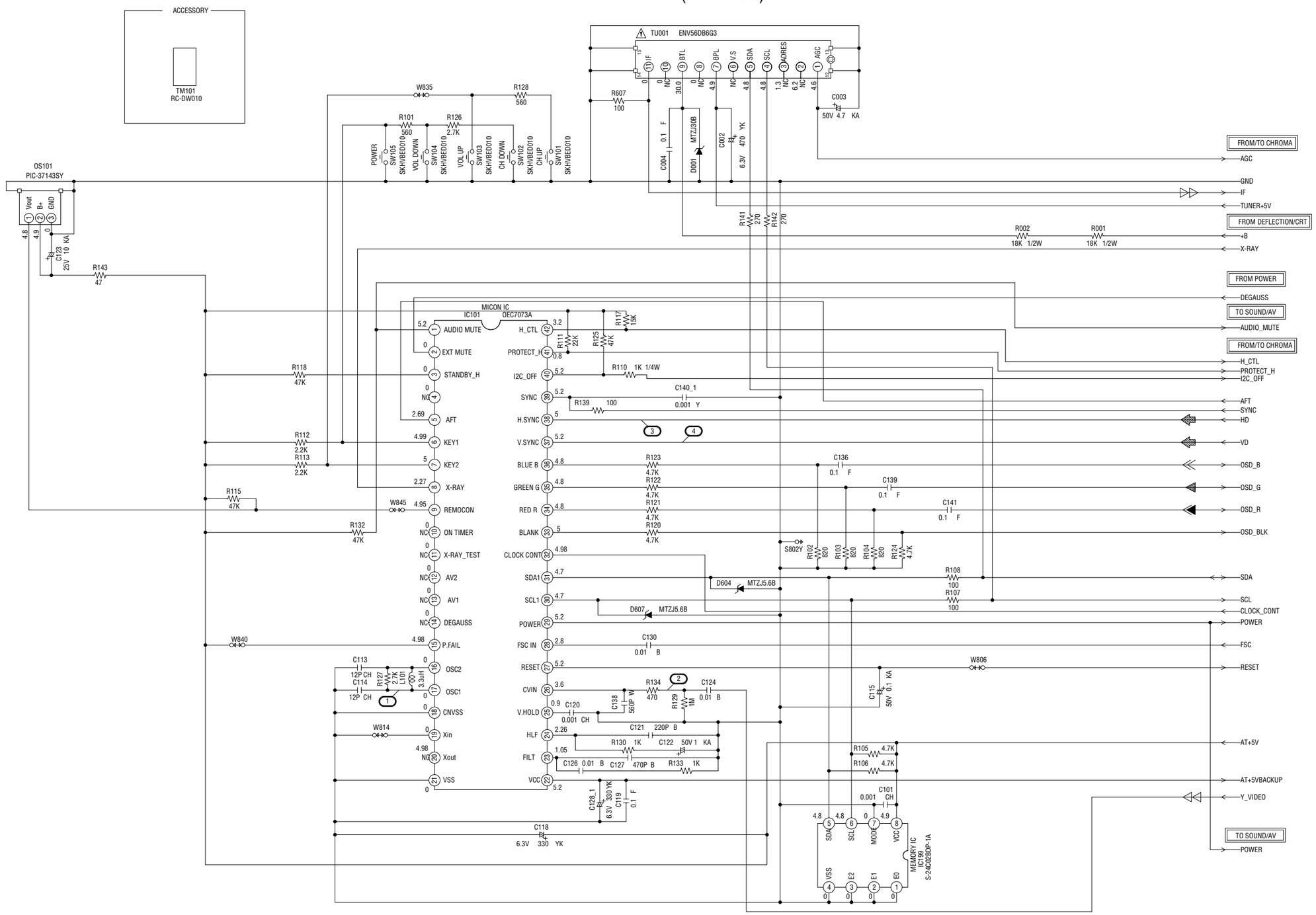


PRINTED CIRCUIT BOARDS
MAIN/CRT (CHIP MOUNTED PARTS)
SOLDER SIDE



MICON/TUNER SCHEMATIC DIAGRAM

(MAIN PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

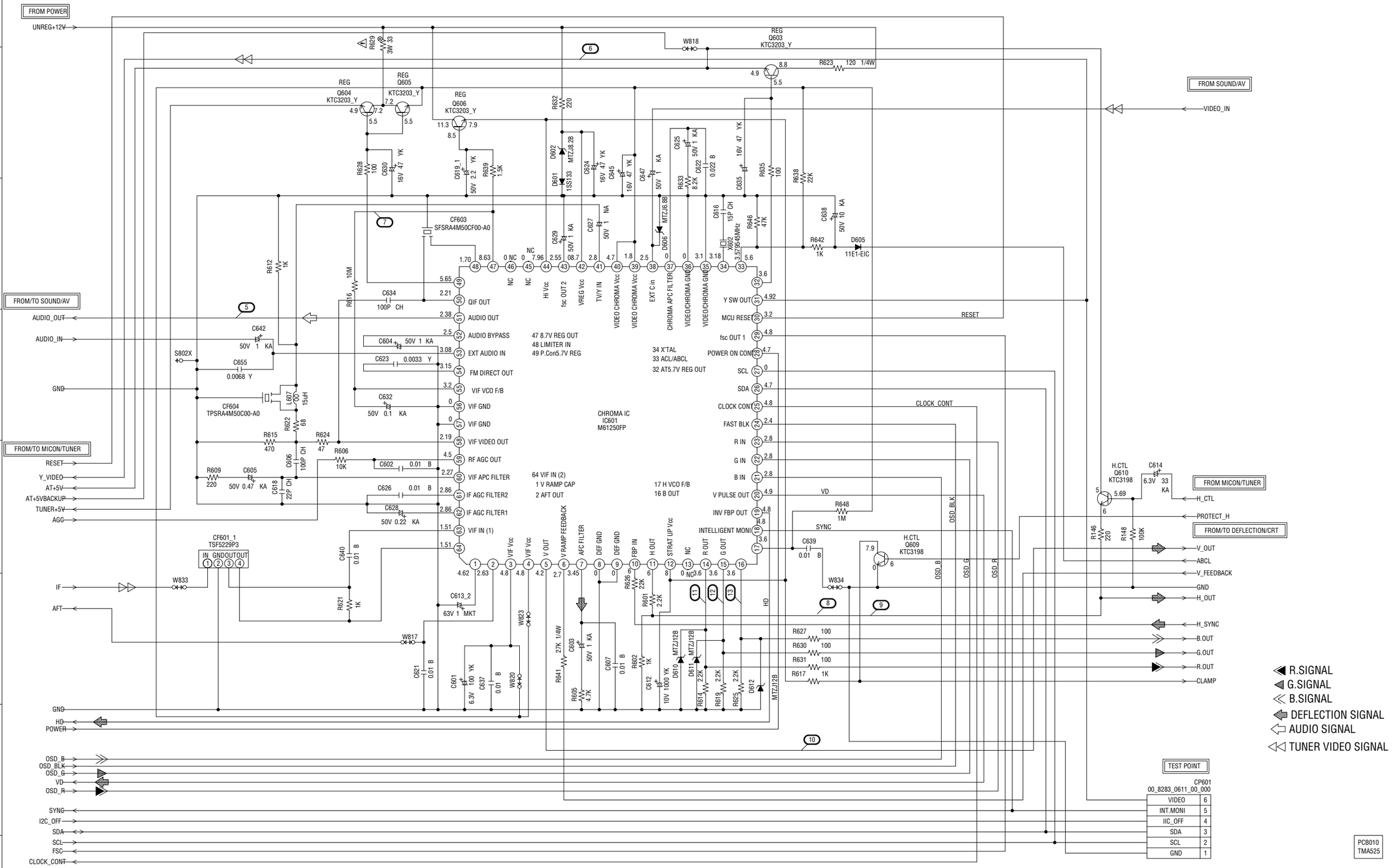
CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

DEFLECTION SIGNAL
TUNER VIDEO SIGNAL
R.SIGNAL
G.SIGNAL
B.SIGNAL

CHROMA SCHEMATIC DIAGRAM

(MAIN PCB)



NOTE: THE RESISTOR MARKED F IS FUSE RESISTOR.
THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP IS NON POLAR ONE.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

POWER SCHEMATIC DIAGRAM
(MAIN PCB)

4A 125V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 4A 125V (F501) FUSE.

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 4A 125V (F501).

TO MICON/TUNER
DEGAUSS

TO SOUND/AV
GND
SOUND+B
SOUND_GND

TO DEFLECTION/CRT
+B
UNREG+12V
GND

TO CHROMA
UNREG+12V

W828
R529 1W 47K
D505 SB290S
C518 500V 470P B
R517 5.6 2W
C519 16V 470 YK
S801X
D510 RU2AM-EIC
W824
C521 160V 100 MHE
C517 2KV 470P RR
D513 SB290S
C515 16V 1000 YK

DEGAUSS COIL L503 8R200029
CP502 A1561WV2-2P
R530 3.3M 1/2W +-10%
W821
W837
TH501_2 PTDA1BF3R0D100
L501_1 1R0A562F20
NC
C505 275V 0.1 PHE840
F501 51MS040LCC
FH501 EYF-52BC
233004-MB000
FH502 EYF-52BC
4A 125V
D501 1N4005-EIC
D502 1N4005-EIC
D503 1N4005-EIC
D504 1N4005-EIC
C502 500V 0.001 B
C503 500V 0.001 B
R501 3.3 5W
R514 0.22 1W
C526 200V 330 UP
R510 1.2M 1/4W
R511 1.2M 1/4W
D509 MTZJ18B
T502 8129092S
1.7
NC
144.0
NC
10.3
6.6
10.3
10.0
NC
0
132.3
0
0
11.3
NC
NC
W829

AC120V_60Hz CD501_2 0R414903
BLACK
WHITE
BLADE WIDE
S501A
S501B
C506 250V 0.0047 KX
B501 W5RH3.5 X5X1.0
B502 W5RH3.5 X5X1.0
C514 2KV 680P RR
144.0
FET Q501 STP5NC50FP
R508 220 1W
C509 0.047 M
D508 1SS133
D512 1SS133
W844
B503 W5RH3.5X5X1.0
BUFFER Q502 KTC3198
R542 0.47 1W
R506_1 1K 1/4W
R520 56K 1/4W
R509 100 1/4W
C511 50V 1 KA
D506 MTZJ18B
HS501 763WSAA013
C501 0.0068 M

FEED BACK Q504 LTV-817M-VB
11.5
10.5
0.1
9.5
R512 47K
R513 2.2K
FEED BACK SWITCHING Q507 KTC3198-AT (Y,GR)
C513_1 0.082 MMT
R515 120K 1/2W
9.5
6.0
5.5
R519 1.2K
D514 1SS133
D522 1SS133
R527 12
D528 MTZJ5.6B
R518 5.6K +-1%

PCB010
TMA525

NOTE: THE RESISTOR MARKED F IS FUSE RESISTOR. THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP IS NON POLAR ONE.

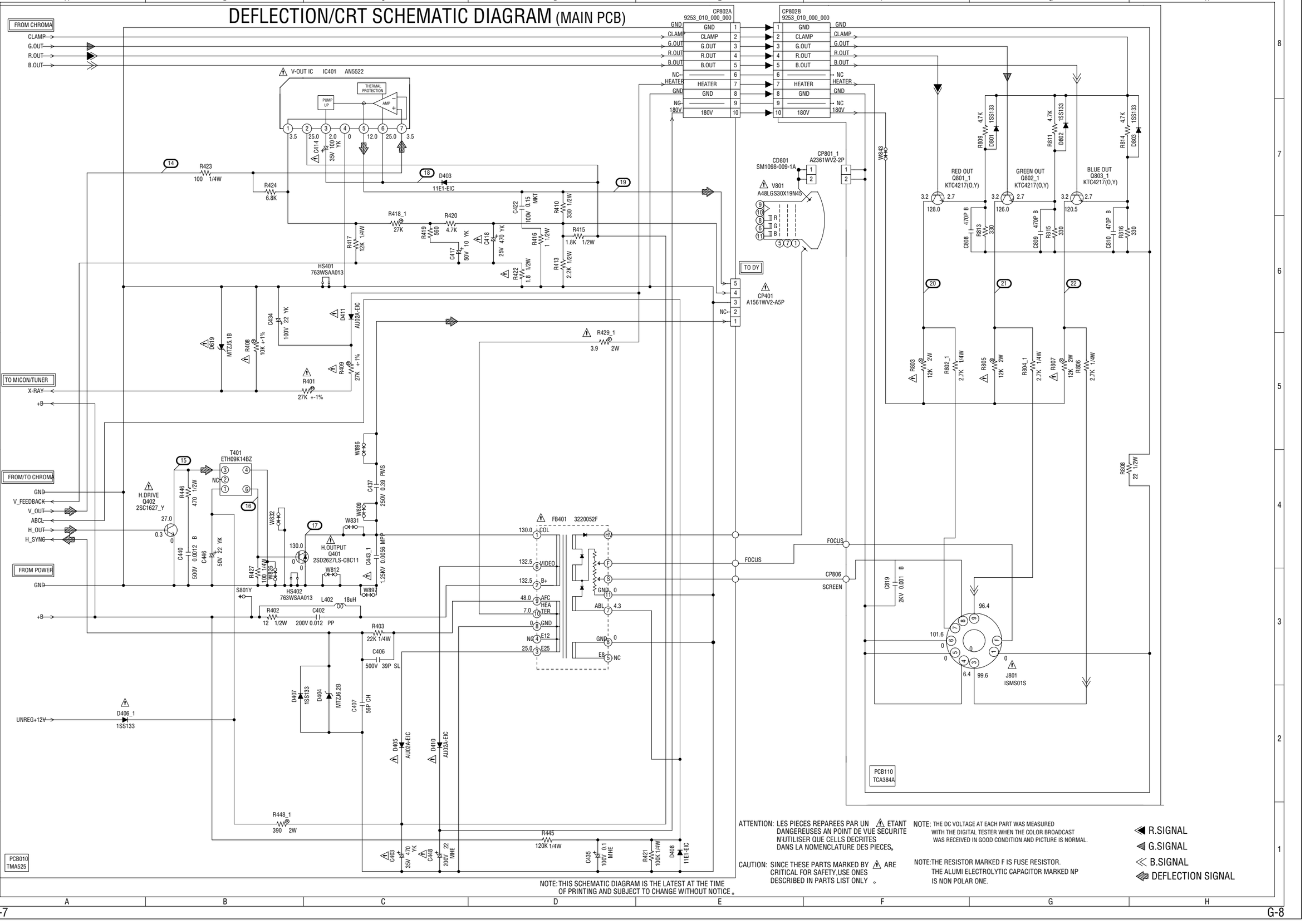
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

DEFLECTION/CRT SCHEMATIC DIAGRAM (MAIN PCB)



ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

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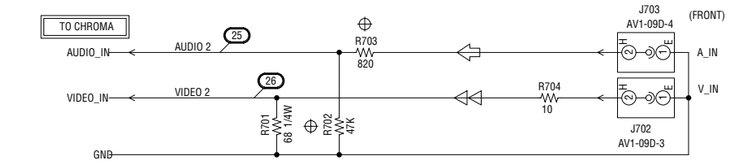
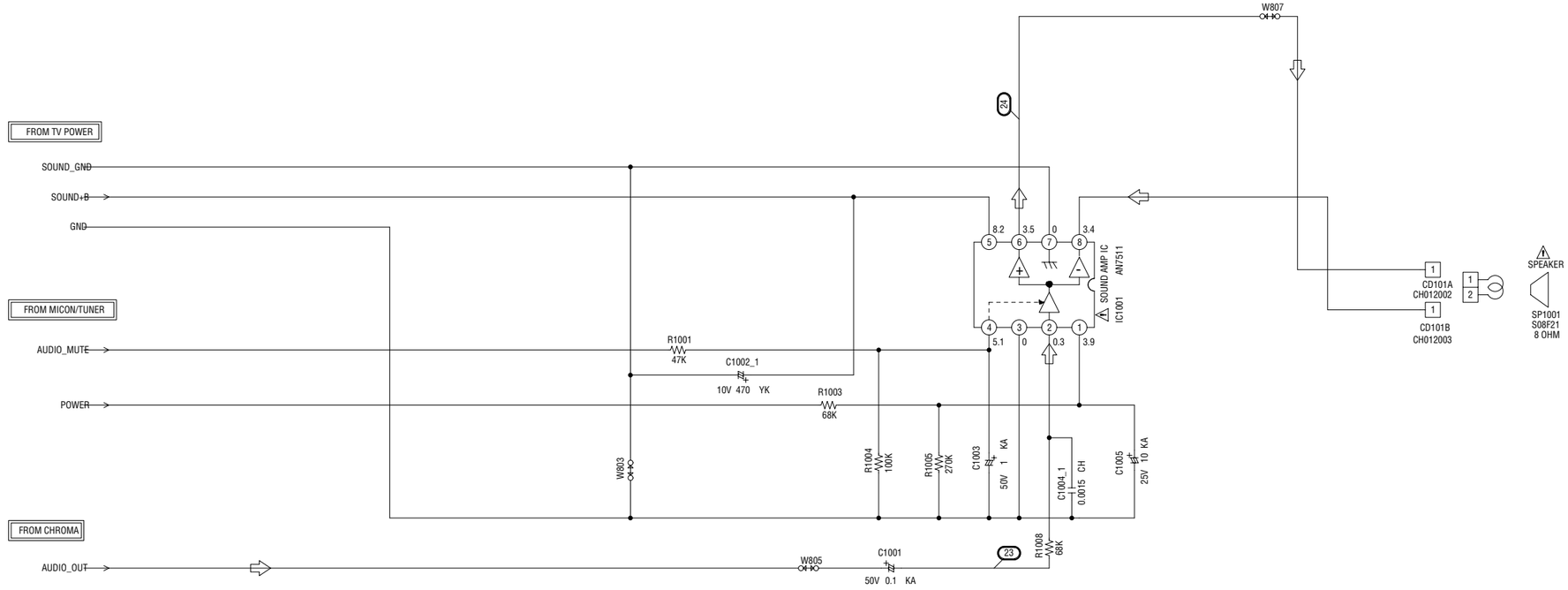
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

R.SIGNAL
G.SIGNAL
B.SIGNAL
DEFLECTION SIGNAL

SOUND/AV SCHEMATIC DIAGRAM

(MAIN PCB)





PCB010
TMA525

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

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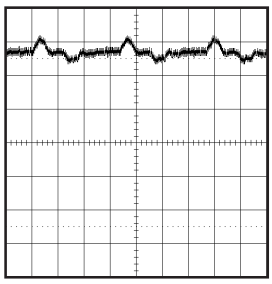
◁◁ TUNER VIDEO SIGNAL

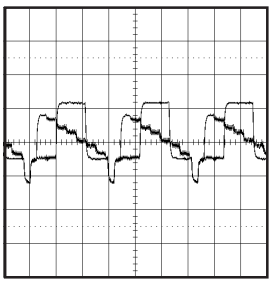
⇦ AUDIO SIGNAL

WAVEFORMS

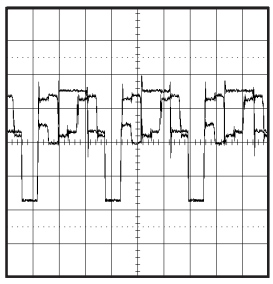
MICON/TUNER



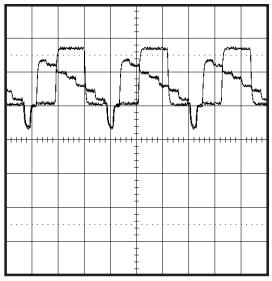
① 200mV 5ms/div



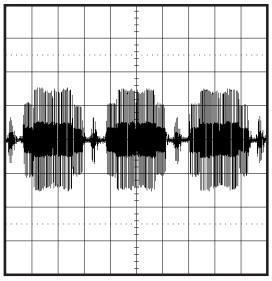
⑥ 0.5V 20µs/div



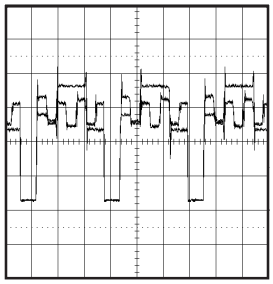
⑪ 1V 20µs/div



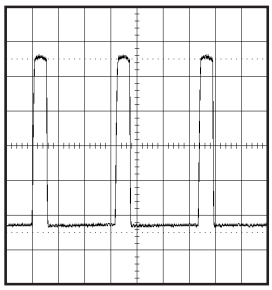
② 0.5V 20µs/div



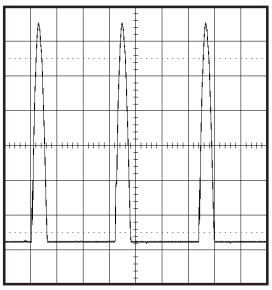
⑦ 200mV 20µs/div



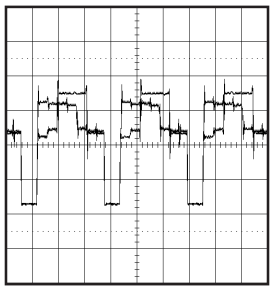
⑫ 1V 20µs/div



③ 200mV 20µs/div

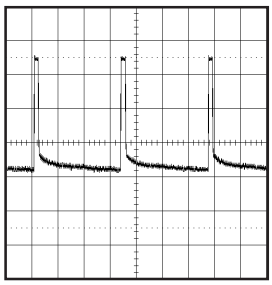


⑧ 20V 20µs/div

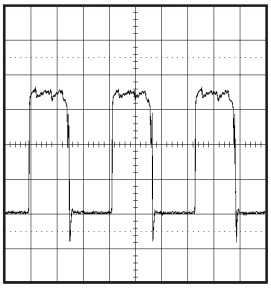


⑬ 1V 20µs/div

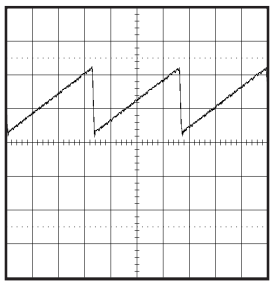
DEFLECTION/CRT



④ 200mV 5ms/div

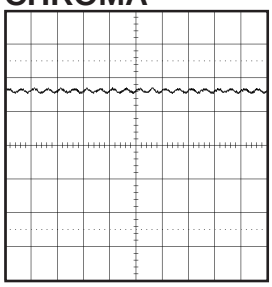


⑨ 200mV 20µs/div

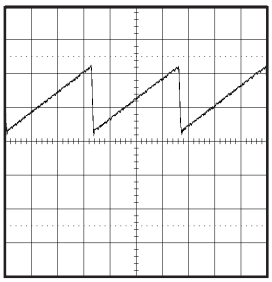


⑭ 0.5V 5ms/div

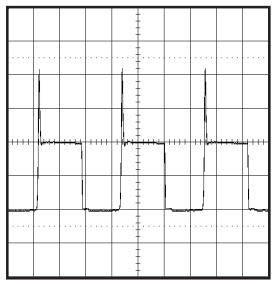
CHROMA



⑤ 0.5V 2ms/div



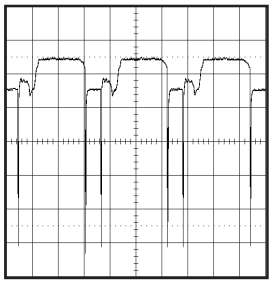
⑩ 0.5V 5ms/div



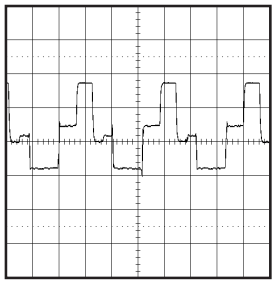
⑮ 20V 20µs/div

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

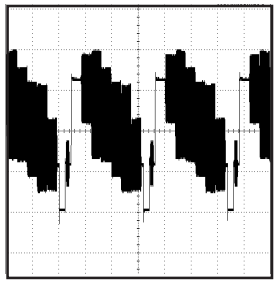
WAVEFORMS



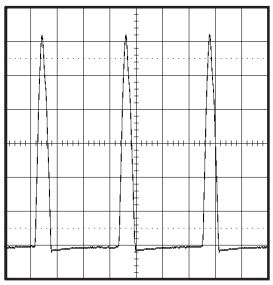
⑯ 2V 20µs/div



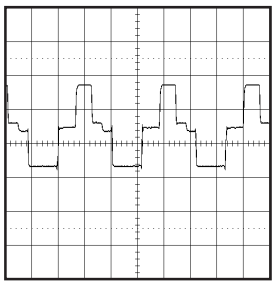
㉑ 50V 20µs/div



㉖ 500mV 20µs/div

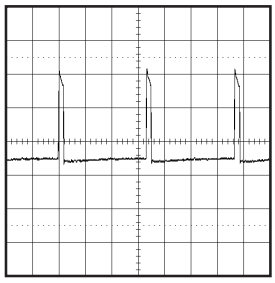


⑰ 200V 20µs/div

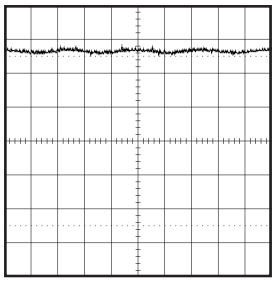


㉒ 50V 20µs/div

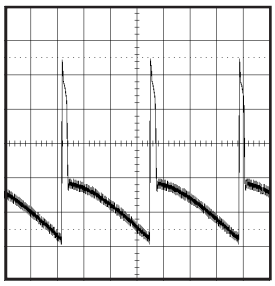
SOUND/AV



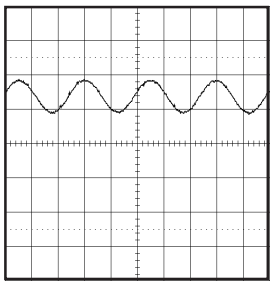
⑱ 10V 5ms/div



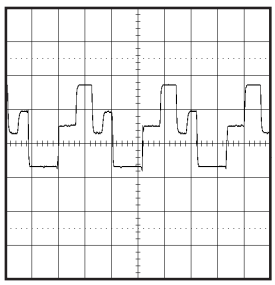
㉓ 0.5V 1ms/div



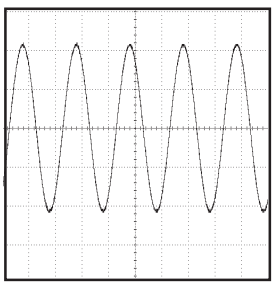
⑲ 10V 5ms/div



㉔ 1V 1ms/div



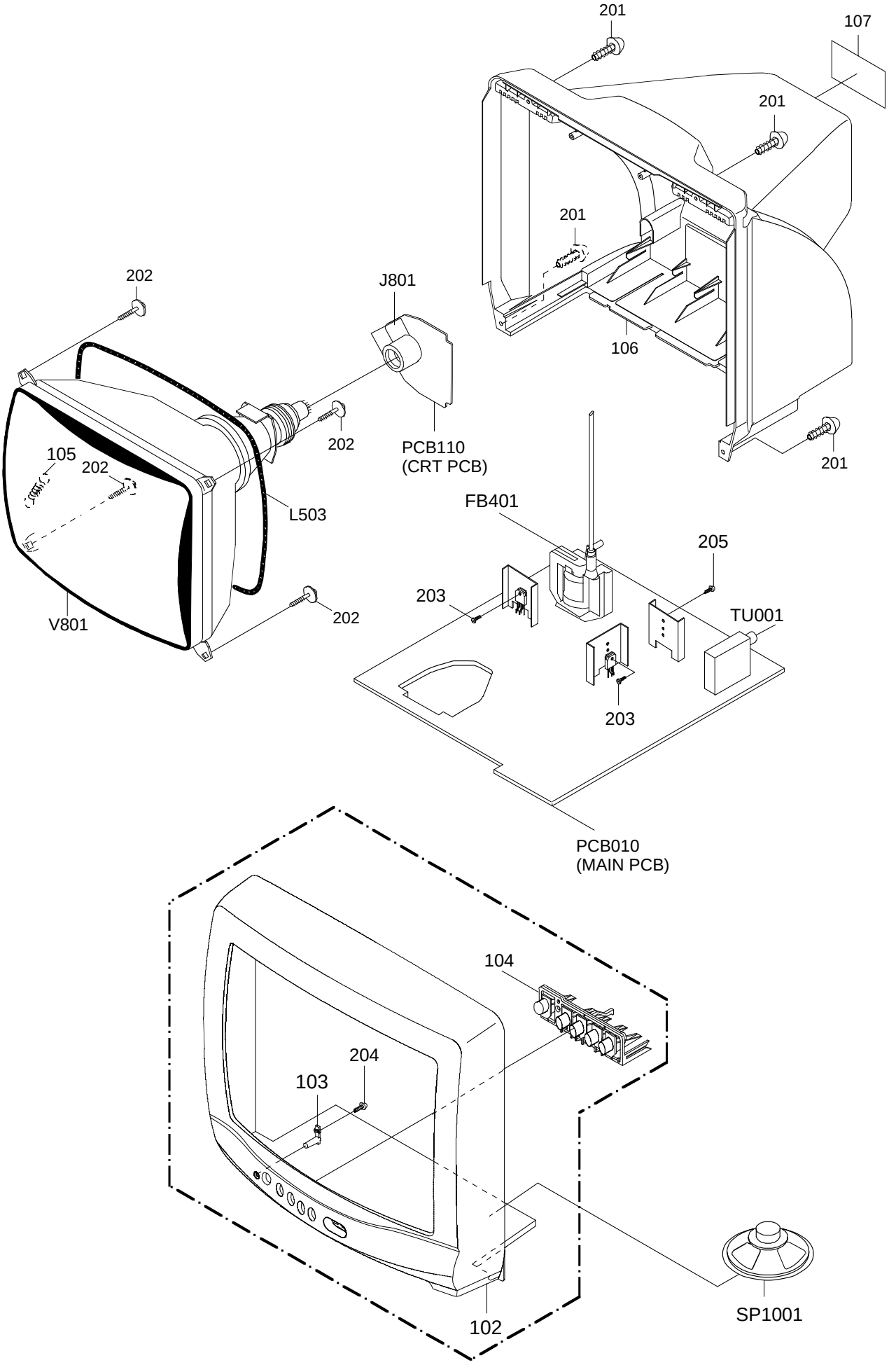
⑳ 50V 20µs/div



㉕ 200mV 500µs/div

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

MECHANICAL EXPLODED VIEW



MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
101	A3L204C720	CABINET,FRONT ASS'Y		
102	701WPJB714	CABINET,FRONT		
103	713WPAA047	GUIDE ,REMOCON		
104	735WPAA417	BUTTON,FRAME		
105	741WUA0019	SPRING,EARTH		
106	702WPAA183	CABINET,BACK		
107	722A08A110	SHEET,RATING		
201	8117540A64	SCREW,TAPPING(B0)	TRUSS	4x16
202	8121F50B84	SCREW,TAPPING(BO)	FAI20 FLAT	5x28
203	8109I30A04	SCREW,TAP TITE(B)	WH7	3x10
204	8110630A04	SCREW,TAP TITE(P)	BRAZIER	3x10
205	8109630802	SCREW,TAP TITE(B)	BRAZIER	3x8
---	JB5U0200	POLYBAG,INSTRUCTION		
---	J3J81702	WARRANTY SHEET		
---	J3L10401	INSTRUCTION BOOK		
---	A3L104C975	INSTRUCTION BOOK KIT		
---	791WHAA017	LAMIFILM BAG		
---	792WHAA040	PACKAGE,TOP		
---	792WHAA041	PACKAGE,BOTTOM		
---	793WCDB206	GIFT BOX		

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
RESISTORS				
R148	R00106104J	RC	100K OHM 1/6W	or
	R001T6104J	RC	100K OHM 1/6W	
⚠ R401	R4X5T6273F	R,METAL	27K OHM 1/6W	
⚠ R409	R4X5T6273F	R,METAL	27K OHM 1/6W	
⚠ R429	R6558A3R9J	R,FUSE	3.9 OHM 2W	
R448	R3X18A391J	R,METAL OXIDE	390 OHM 2W	
⚠ R500	R0G3K2335K	RC	3.3M OHM 1/2W	
⚠ R501	R5Y2CD3R3J	R,CEMENT	3.3 OHM 5W	
R508	R3X181221J	R,METAL OXIDE	220 OHM 1W	
R514	R63581R22J	R,FUSE	0.22 OHM 1W	
⚠ R515	R002T2124J	RC	120K OHM 1/2W	
⚠ R517	R3X28A5R6J	R,METAL OXIDE	5.6 OHM 2W	
⚠ R518	R4X5T6562F	R,METAL	5.6K OHM 1/6W	
⚠ R519	R001T6122J	RC	1.2K OHM 1/6W	
⚠ R542	R3X181R47J	R,METAL OXIDE	0.47 OHM 1W	
⚠ R629	R3X28B330J	R,METAL OXIDE	33 OHM 3W	
⚠ R641	R002T4273J	RC	27K OHM 1/4W	
⚠ R803	R3X18A123J	R,METAL OXIDE	12K OHM 2W	
⚠ R805	R3X18A123J	R,METAL OXIDE	12K OHM 2W	
⚠ R807	R3X18A123J	R,METAL OXIDE	12K OHM 2W	
CAPACITORS				
C402	P3N1F2123J	CPP	0.012 UF 200V	
⚠ C403	E02LT4471M	CE	470 UF 35V	
⚠ C414	E02LT4101M	CE	100 UF 35V	
⚠ C418	E02LT3471M	CE	470 UF 25V	
C437	P4J7F3394J	CMPP	0.39 UF 250V PMS	
⚠ C443	P4N8FJ562H	CMPP	0.0056UF 1.25KV	
⚠ C446	E02LT5220M	CE	22 UF 50V	
⚠ C448	E5EZ0C220M	CE	22 UF 200V	
⚠ C502	C0JTB0513K	CC	0.001 UF 500V B	
⚠ C503	C0JTB0513K	CC	0.001 UF 500V B	
⚠ C505	P2472B104M	CMP	0.1 UF 275V PHE840	
⚠ C506	CD39E0MQ3M	CC	0.0047UF 250V	
⚠ C511	E50HU5010M	CE	1 UF 50V	
C513	P23200823J	CMPL	0.082 UF 50V MMT	or
	P232W0823J	CMPL	0.082 UF 50V MMTS	
C514	C0PLRR7U2K	CC	680 PF 2KV RR	
⚠ C515	E02LT2102M	CE	1000 UF 16V	
C517	C0PLRR7Q2K	CC	470 PF 2KV RR	or
	C01BBP7Q2K	CC	470 PF 2KV BP	or
	C01TBP7Q2K	CC	470 PF 2KV BP	
⚠ C519	E02LT2471M	CE	470 UF 16V	
⚠ C521	E5EZFB101M	CE	100 UF 160V	
⚠ C526	E51CGC331M	CE	330 UF 200V	
C634	CQG0CH412J	CC	100 PF 50V CH	or
	CQGTCH412J	CC	100 PF 50V CH	
C819	C0JBB0713K	CC	0.001 UF 2KV B	
DIODES				
D001	D97U03001B	DIODE,ZENER	MTZJ30B T-77	
D403	D2WT011E10	DIODE SILICON	11E1-EIC	or
	D28T11E2N2	DIODE SILICON	11E2N-TA1B2	
D404	D97U06R21B	DIODE,ZENER	MTZJ6.2B T-77	
⚠ D405	D2WTAU02A0	DIODE SILICON	AU02A-EIC	
D406	D1VT001330	DIODE,SILICON	1SS133T-77	
D407	D1VT001330	DIODE,SILICON	1SS133T-77	
D408	D2WT011E10	DIODE SILICON	11E1-EIC	or
	D28T11E2N2	DIODE SILICON	11E2N-TA1B2	
⚠ D410	D2WTAU02A0	DIODE SILICON	AU02A-EIC	
⚠ D411	D2WTAU02A0	DIODE SILICON	AU02A-EIC	
⚠ D501	D2WXN40050	DIODE SILICON	1N4005-EIC	
⚠ D502	D2WXN40050	DIODE SILICON	1N4005-EIC	
⚠ D503	D2WXN40050	DIODE SILICON	1N4005-EIC	
⚠ D504	D2WXN40050	DIODE SILICON	1N4005-EIC	
⚠ D505	D2WXB290S0	DIODE SILICON	SB290S	
D506	D97U01801B	DIODE,ZENER	MTZJ18B T-77	
D508	D1VT001330	DIODE,SILICON	1SS133T-77	
⚠ D509	D97U01801B	DIODE,ZENER	MTZJ18B T-77	
⚠ D510	D2WXRU2AM0	DIODE SILICON	RU2AM-EIC	
D512	D1VT001330	DIODE,SILICON	1SS133T-77	
⚠ D513	D2WXB290S0	DIODE SILICON	SB290S	
D514	D1VT001330	DIODE,SILICON	1SS133T-77	
⚠ D522	D1VT001330	DIODE,SILICON	1SS133T-77	
D528	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77	
D601	D1VT001330	DIODE,SILICON	1SS133T-77	
D602	D97U08R21B	DIODE,ZENER	MTZJ8.2B T-77	
D604	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77	
D605	D2WT011E10	DIODE SILICON	11E1-EIC	or

REF. NO.	PART NO.	DESCRIPTION		
DIODES				
	D28T11E2N2	DIODE SILICON	11E2N-TA1B2	
D606	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77	
D607	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77	
D610	D97U01201B	DIODE,ZENER	MTZJ12B T-77	
D611	D97U01201B	DIODE,ZENER	MTZJ12B T-77	
D612	D97U01201B	DIODE,ZENER	MTZJ12B T-77	
D619	D97U05R11B	DIODE,ZENER	MTZJ5.1B T-77	
D801	D1VT001330	DIODE,SILICON	1SS133T-77	
D802	D1VT001330	DIODE,SILICON	1SS133T-77	
D803	D1VT001330	DIODE,SILICON	1SS133T-77	
ICS				
IC101	I56F07073A	IC	OEC7073A	
IC199	A3L204C015	IC	S-24C02BDP-1A	
⚠ IC401	I01TD55220	IC	AN5522	
IC601	I06FC61250	IC	M61250FP	
IC1001	I01DP75110	IC	AN7511	
TRANSISTORS				
⚠ Q401	TD30026270	TRANSISTOR SILICON	2SD2627LS-CBC11	
⚠ Q402	TC5T01627Y	TRANSISTOR SILICON	2SC1627_Y(TPE2)	
Q501	TJXG5NC500	FET	STP5NC50FP	
⚠ Q502	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)	
⚠ Q504	0002E00610	PHOTO COUPLER	LTV-817M-VB	
Q507	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)	
Q603	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q604	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q605	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q606	TCAT032034	TRANSISTOR, SILICON	KTC3203_Y-AT	
Q609	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)	
Q610	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)	
Q801	TCA0042170	TRANSISTOR SILICON	KTC4217(O,Y)	
Q802	TCA0042170	TRANSISTOR SILICON	KTC4217(O,Y)	
Q803	TCA0042170	TRANSISTOR SILICON	KTC4217(O,Y)	
COILS &TRANSFORMERS				
L101	021LA63R3K	COIL	3.3 UH	
L402	02186G180M	COIL	18 UH	
⚠ L501	029T000104	COIL,LINE FILTER	1R0A562F20	
⚠ L503	028R200029	COIL,DEGAUSS	8R200029	
L607	021LA6150K	COIL	15 UH	
T401	045009003J	TRANS,HORIZONTAL DRIVE	ETH09K14BZ	
⚠ T502	048129092S	TRANSFORMER,SWITCHING	8129092S	
JACKS				
J702	060Q401077	RCA JACK	AV1-09D-3	
J703	060Q401076	RCA JACK	AV1-09D-4	
⚠ J801	066F120018	SOCKET,CRT	ISMS01S	
SWITCHES				
SW101	0504201T31	SWITCH,TACT	SKHVBED010	
SW102	0504201T31	SWITCH,TACT	SKHVBED010	
SW103	0504201T31	SWITCH,TACT	SKHVBED010	
SW104	0504201T31	SWITCH,TACT	SKHVBED010	
SW105	0504201T31	SWITCH,TACT	SKHVBED010	
P.C.BOARD ASSEMBLIES				
PCB010	A3L204C010	PCB ASS'Y	TMA525A	
PCB110	A3L208C110	PCB ASS'Y	TCA384A	
MISCELLANEOUS				
B501	024HT03553	CORE,BEADS	W5RH3.5X5X1.0	
B502	024HT03553	CORE,BEADS	W5RH3.5X5X1.0	
B503	024HT03553	CORE,BEADS	W5RH3.5X5X1.0	
⚠ CD501	120R414903	CORD AC BUSH	0R414903	
CD801	06CU82039A	CORD CONNECTOR	SM1098-009-1A	
CF601	1029045R7G	FILTER,SAW	TSF5229P3	
CF603	1012T4R520	FILTER,CERAMIC	SFSRA4M50CF00-A0	
CF604	1012T4R519	FILTER,CERAMIC TRAP	TPSRA4M50C00-A0	
CP401	069S450089	CONNECTOR PCB SIDE	A1561WV2-A5P	
CP502	069S420110	CONNECTOR PCB SIDE	A1561WV2-2P	
CP601	069E260659	CONNECTOR PCB SIDE	00_8283_0611_00_00	or
	0694260139	CONNECTOR PCB SIDE	173979-6	or
	0694260669	CONNECTOR PCB SIDE	175489-6	
CP801	069S320010	CONNECTOR PCB SIDE	A2361WV2-2P	
CD101A	06CH012002	CORD CONNECTOR	CH012002	
CD101B	06CH012003	CORD CONNECTOR	CH012003	
CP802A	067N010039	WIRE HOLDER	9253_010_000_000	or
	067U010049	WIRE HOLDER	B2013H02-10P	
CP802B	067N010039	WIRE HOLDER	9253_010_000_000	or
	067U010049	WIRE HOLDER	B2013H02-10P	
EL002	124120301A	EYE LET	XRY20X30BD	
⚠ F501	081PC04004	FUSE	51MS040LCC	
⚠ FB401	043220052F	TRANSFORMER,FLYBACK	3220052F	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
		MISCELLANEOUS	
FH501	06710T0006	HOLDER,FUSE	EYF-52BC
FH502	06710T0006	HOLDER,FUSE	EYF-52BC
OS101	077Q037003	REMOTE RECEIVER	PIC-37143SY
S101	WHL6032038	FLAT CABLE	AWG26 10C BLACK 320MM
⚠ SP1001	070Y132018	SPEAKER	S08F21
TH501	DF20A3R0Q0	DEGAUSS ELEMENT	PTDAA1BF3R0Q100
TM101	076N0DW010	TRANSMITTER	RC-DW010
⚠ TU001	0145100059	TUNER,VHF-UHF	ENV56DB6G3
⚠ V801	098Y200480	CRT W/DY	A48LGS30X19N45
X602	100CT3R505	CRYSTAL	HC-49/C

RESISTOR

RC..... CARBON RESISTOR

CAPACITORS

CC..... CERAMIC CAPACITOR
CE..... ALUMI ELECTROLYTIC CAPACITOR
CP..... POLYESTER CAPACITOR
CPP..... POLYPROPYLENE CAPACITOR
CPL..... PLASTIC CAPACITOR
CMP..... METAL POLYESTER CAPACITOR
CMPL..... METAL PLASTIC CAPACITOR
CMPP..... METAL POLYPROPYLENE CAPACITOR

SPEC.NO.	M3L2-04C
O/R NO.	W223026

Memorex®

MT1197

SERVICE MANUAL

COLOR TELEVISION RECEIVER

REVISION 1
MFR'S VERSION A

MFR'S VERSION	CRT
A	A48AKH13X04
B	A48LGS30X19N45

Design and specifications are subject to change without notice.

Change of CRT

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	MFR'S VERSION A		MFR'S VERSION B	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
C444	P4N8FJ102H	CMPP 0.001 UF 1.25KV		———
PCB010	A3L204B010	MAIN PCB ASS'Y (VERSION A) TMA525A	A3L204C010	MAIN PCB ASS'Y (VERSION B) TMA525A
⚠ V801	098Q200490	CRT W/DY A48AKH13X04	098Y200480	COLOR PICTURE TUBE W/DY A48LGS30X19N45

MAIN PCB's are not interchangeable.

SPEC.NO.	M3L2-04B
O/R NO.	W2Y3055